

ABSTRACT

5 The invention relates to the recognition of digital
finger prints, more particularly to recognition by an
elongate bar of sensors able to detect crests and
valleys of finger prints when a finger is passed in a
relative manner in front of a sensor in an essentially
10 parallel manner in relation to the direction of
elongation of said bar. The inventive method comprises
the following operations: successive partially
overlapping images are acquired under the control of a
processor; displacement of the first image in relation
15 to a second image is examined in order to provide a
better correlation between the two images; said
displacement component is determined in terms of pixels
in a perpendicular direction with respect to the
elongate sensor; the displacement component is compared
20 to at least one threshold; according to the result of
the comparison, a delay T imposed by the processor
before the acquisition of a following image is
preserved, or increased or decreased by a time
increment dT . As a result, the correlation search is
25 adapted according to the speed, which is unknown, of
displacement of the finger.